

D.C. TO A.C. FERRORESONANT INVERTERS



RATINGS

Single Phase Output
120 VA to 75KVA

Three Phase Output
6KVA to 100KVA

BASIC DESIGN SPECIFICATIONS

- Ratings from 120VA to 125 KVA.
- Both single and three phase configurations.
- A wide range of input and output voltages.
- Low THD sine wave outputs.
- Precise voltage and frequency control for critical loads.
- Smooth zero-break load transfers.
- Ability to handle severe unbalanced loads on 3 phase systems.
- DC Voltages available from 12 to 240 volts.
- FERRORESONANT technology
- Standard COLD START feature.
- Voltage Regulation:
 - Line +/- 2%
 - Load +/- 1%
- Frequency Tolerance +/- .025%
- Recovery Time: 20 ms
- Temperature: 0-40°C (50°C optional)
- Load Power Factor 0.7 leading or lagging
- Overload and Short Circuit Protection.
- Forced Air Cooling over 1000 VA.

Our Static Inverters are designed for a reliable supply of A.C. Power for critical loads such as:

- Process Control Computer
- Automation Equipment
- Data Transmission Equipment
- Boiler & Supervisory Control Systems
- Any Equipment Sensitive to Voltage Fluctuations

These inverters consist of a low voltage oscillator, a parallel FET or SCR inverter and a ferro-resonant transformer, which provides output voltage regulation and filtering. The output is a sine wave with less than 5% distortion. Connected with a battery charger and battery bank, an uninterruptible power system is formed to protect against power failures.

INPUT SPECIFICATIONS

- Input voltage 120VAC to 600VAC.
- DC Voltage link 24 VDC, 48 VDC, 125 VDC, 240 VDC
- Phases Single or Three Phase.
- Frequency 60Hz or 50Hz

ORDER INFORMATION

Partial List of Models (3)	D.C. Input Volts	Output VA (3)	Dimensions			Type of Enclosure (4)
			H	W	D	
IV 12-120	10-14	120	12	10	6	WM
IV 12-250	10-14	250	20	16	7	WM
IV 24-120	21-30	120	12	10	6	WM
IV 24-250	21-30	250	20	16	7	WM
IV 24-500	21-30	500	24	17	14	WM
IV 24-1000	21-30	1000	30	24	24	FS
IV 24-2000	21-30	2000	30	24	24	FS
IV 48-500	41-58	500	24	17	14	WM
IV 48-1000	41-58	1000	30	24	24	FS
IV 48-1500	41-58	1500	30	24	24	FS
IV 48-2000	41-58	2000	30	24	24	FS
IV 48-3000	41-58	3000	36	24	24	FS
IV 48-5000	41-58	5000	48	24	24	FS
IV 48-7500	41-58	7500	62	24	24	FS
IV 120-500	105-145	500	24	17	14	WM
IV 120-1000	105-145	1000	30	24	24	FS
IV 120-1500	105-145	1500	30	24	24	FS
IV 120-2000	105-145	3000	36	24	24	FS
IV 120-3000	104-145	3000	36	24	24	FS
IV 120-5000	105-145	5000	48	24	24	FS
IV 120-7500	105-145	7500	62	24	24	FS
IV 120-10000	105-145	10000	72	24	24	FS
IV 120-15000	105-145	15000	72	24	24	FS
IV 120-20000	105-145	20000	62	48	24	FS
IV 120-30000	105-145	30000	72	48	24	FS

Other dimensions available upon request.

Notes: (1) 1000 VA & above are fan cooled. (2) 240 V.D.C. inputs are available. Change 120 in 120 V.D.C. models to 240. Example: IV 240-2000 240 V.D.C. input at 2000 VA Output. (3) Other ratings available. Consult factory. (4) PM-Panel Mount; WM-Wall Mount; FS-Free Standing. (5) Special designs available upon request.

STANDARD FEATURES

- Input & output circuit breakers (except 120 VA units)
- Output Voltmeter & Ammeter (except 120 VA units)
- Polyurethane textured finish
- Low DC Voltage shutdown

OPTIONAL FEATURES

- Frequency Meter
- Input D.C. Voltmeter
- Input D.C. Ammeter
- Low D.C. Voltage relay
- Manual By-Pass Switch
- Output Voltage monitor relay
- Synchronizing to A.C. line
- Electro-mechanical relay to transfer to alternate source
- Static switch to transfer to alternate source
- Load on By-Pass Source Relay

Presented By